Route Diversity

Route Diversity provides an increased safety factor for ESP facilities that could be subject to disruption from cable cuts and other unavoidable catastrophes. It provides for diverse routing when necessary in order to comply with special ESP requirements.

Generic Name of ONA Service	GTE Product Name	BSE or CNS
Route Diversity	Diversity Routing	BSE

FEATURE OPERATION:

Three example serving arrangements provide the desired overall special facilities routing:

- Local Diversity provides a transmission path for services between the customer's designated premises and the serving wire center that is diverse from the normal transmission path.
- 2. Inter Wire Center Diversity provides a transmission path diverse from the normal path, for services between a set of wire centers.
- 3. The Serving Wire Center Avoidance arrangement provides a transmission path for services between the customer's designated premises and a wire center which is not normally the serving wire center.

This capability is provided with the following conditions in mind: diversity involves providing services over different physical routes, and avoidance involves providing one or more services on a route which avoids specific geographic locations.

TECHNOLOGICAL AND FEATURE INTERACTION CONSIDERATIONS:

- 1 This feature is independent of central office switch type.
- 2. The diversity may consist of separate facilities within the same sheath, facilities in separate sheaths over the same facilities route, or entirely separate facility routes.
- All route diversity combinations are not available for all ESP locations. ESPs desiring route diversity should contact their LEC account representative to determine what is available to them.

This service, if offered as a BSE, is associated with all basic serving arrangement types.

Secondary Channel Capability

The secondary channel feature provides the customer with access to a low speed monitoring channel associated with a primary dedicated digital private line channel. The secondary channel simultaneously transmits at a lower bit rate.

Generic Name of ONA Service	GTE Product Name	BSE or CNS
Secondary Channel Capability	Digital Data Service Secondary Channel	BSE

FEATURE OPERATION:

The secondary channel capability offers a companion digital transmission channel independent of the primary channel and at a lower bit rate.

The basic dedicated digital private line offers two-point and multi-point synchronous full duplex data transmission at 2.4 Kbps, 4.8 Kbps, 9.6 Kbps and 56 Kbps. Secondary channel data transmission rates are subrates of the basic dedicated digital private line speeds, i.e., 133 bps, 266 bps, 533 bps and 2.666 Kbps. The secondary channel will utilize the same basic network equipment and transmission facilities as the primary channel and will have comparable quality.

A 2-point circuit connects two customer stations in a balanced mode of operation.

From different remote stations on a multipoint circuit, transmission on the primary and secondary channels are independent of each other, that is, a remote station can communicate with the control station on the primary channel while another station simultaneously transmits on the secondary channel to the control station.

TECHNOLOGICAL AND FEATURE INTERACTION CONSIDERATIONS:

- 1. The customer's overall performance will depend on the characteristics of the CPE and customer premises cabling that is provided and maintained by the customer, as well as those of the DDS network. These performance objectives are attainable if the CPE connected to the DDS network meets the requirements of TR-NPL-000157.
- 2. Due to use of the same network equipment and transmission facilities for related primary and secondary channels, the quality of the related channels should be approximately equal.
- 3. Multipoint capability may not be available in all locations.
- 4. Note that some LECs may not offer this feature in conjunction with the Category 3. Type K -

Dedicated Digital (64 Kbps) BSA.

5. References:

o TR-NPL-000157 Secondary Channel in the Digital Data System: Channel Interface Requirements, Issue 2, April 1986.

This service, if offered as a BSE, is associated with the Dedicated Digital (< 64 kbps) basic serving arrangement.

4. Technical Descriptions for Dedicated Network Access Link Serving Arrangements

Message Desk (SMDI)

This capability will provide the ESP with real time call status information on telephone calls that are terminated to a multiline hunt group. The information delivered in this package includes the following: MLHG and terminal identification of call handler, call reason (call forward type or direct call), original calling directory number, and originally called number in the forwarding situation.

The call status information is transported from the serving central office via a data link to the ESP message desk terminal equipment.

If the ESP has a MLHG and an associated SMDI (Simplified Message Desk Interface) data link, the ESP will get both the call status information and the ability to activate the message waiting indicator. Current limitations require the ESP to obtain a MLHG and a dedicated data access link to interface with every switch in which the ESP desires the capability to receive the call status information.

Multiple Users capability provides the delivery of calling number, called number, reason for forwarding of calls forwarded or placed to the ESP, identifies the multiline hunt group assigned to ESP customers (multiple users capability) and allows for the activation/deactivation of message waiting indicator on the ESP's customer line. This allows the ESP to use one data link for multiple groups of end users and the activation of message waiting indicator. The reason for forwarding includes: Call Forwarding Busy, Call Forwarding Don't Answer, Call Forwarding Variable (forwarding of all calls), and Direct Call.

Generic Name of ONA Service	GTE Product Name	BSE or CNS
Message Desk (SMDI)	Forwarded Call Information - Intraoffice	BSE

FEATURE OPERATION:

There is no required action by the ESP's customer to activate the SMDI feature. When an ESP customer's call is terminated to a MLHG served by the SMDI feature, call information including the called DN, the type of call forwarding used for the call, and the calling DN (intraoffice only) is delivered by way of a dedicated data link to the ESP. The ESP must then use some type of CPE to receive and interpret the SMDI data. If this CPE is equipped to display the client's account information to the attendant coincident with receipt of the client's call, the attendant can answer the call on a personalized basis using an appropriate answering phrase.

Message Desk provides the capability to initiate a request over the SMDI link to activate/deactivate the Message Waiting Indicator (MWI) on an individual client's line.

TECHNOLOGICAL AND FEATURE INTERACTION CONSIDERATIONS:

1. This feature is available in the following central office switches:

Switch Type	Earliest Generic Release
EWSD	9
GTD-5	1.6.3.3
DMS-10	404.3
1AESS	IAE8A
5ESS	5E4.2*
DMS-100	BCS29**

Note: * In the 5ESS, this feature requires the non-standard pre-ISDN arrangement using the ISDN I Message AP/ACP or 3A translator with the 5E4.2 Generic.

- ** In the DMS-100, BCS29 supports this feature on Residential Enhanced Services (RES).
- 2. This feature can only be offered on an Intraoffice basis.
- 3. The ESP's CPE used to receive and interpret the SMDI data must use the same signaling, control, and data communications protocol as the telephone office Input/Output channel. This channel uses a standard Electronic Industries Association (EIA) RS232 asynchronous 1200-baud ASCII interface.
- 4. Reference for SMDI:
 - o TR-TSY-000283, Simplified Message Desk Interface (SMDI) Generic Requirements, Issue 2, May 1991, Supplement 1, December 1991.

This service, if offered as a BSE, may be associated with the Dedicated Network Access Link and Circuit Switched Line basic serving arrangement.

Message Waiting Indicator - Activation (Audible)

This capability allows an ESP to indicate to its subscriber that a message is waiting for retrieval. With this capability, the ESP can activate an audible signal, e.g., stutter dial tone, on the ESP's client's line.

Activation of message waiting can be provided in limited switch types. The technology used is the same technology which supports the SMDI product. The input/output (I/O) port is used to recognize incoming messages from the ESP. Those incoming messages direct the switch to activate a message waiting indication on an ESP's client's line.

Generic Name of ONA Service	GTE Product Name	BSE or CNS
Message Waiting Indicator - Activation (Audible)	Message Waiting Indication - Audible	BSE

FEATURE OPERATION:

- 1. An ESP's client can use call forwarding busy line (CFBL), call forwarding don't answer (CFDA), or call forwarding variable (CFV) to forward their calls to the ESP.
- With appropriate line translations in Stored Program Control switches, an ESP can turn on or off a special recall dial tone (stutter dial tone) to notify their clients of an awaiting message. Whenever the client attempts to originate a call, the client receives stutter dial tone. This indicates to the client that a message(s) has been received by the ESP for the client. The client will receive stutter dial each time a call is attempted until the ESP sends a message to the switch to remove the stutter dialtone (MWI).
- 3. Messages to turn on/turn off the Message Waiting Indicator (MWI) are sent to the central office on an SMDI-type data link.
- 4. If the client DN does not have the MWI option assigned, is not a valid DN, or if the switch does not have enough resources to carry out the message waiting function, a message is sent to the ESP via the Input/Output channel.

TECHNOLOGICAL AND FEATURE INTERACTION CONSIDERATIONS:

1 This feature is available in the following central office switches:

Switch Type	Earliest Generic Release	
EWSD	9	
GTD-5	1.6.4.1	
DMS-10	404.3	
IAESS	IAE8A	
5ESS	5E4.2*	
DMS-100	BCS29**	

Note: * In the 5ESS, this feature requires the non-standard pre-ISDN arrangement using the ISDN 1 Message AP/ACP or 3A translator with the 5E4.2 Generic.

- ** In the DMS-100, BCS29 supports this feature on Residential Enhanced Services (RES).
- 2. This feature can only be offered on an Intraoffice basis.
- 3. References for MWI:
 - o TR-TSY-000283, Simplified Message Desk Interface (SMDI) Generic Requirements, Issue 2, May 1991, Supplement 1, December 1991.

This service, if offered as a BSE, may be associated with the Dedicated Network Access Link and Circuit Switched Line basic serving arrangement.

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1. Appendix 1 - Region Specific Services - Technical Descriptions for Circuit Switched Serving Arrangements

Anonymous Call Rejection

This capability provides the ESP's client with the ability to reject calls from parties that have activated the Cancel Calling Number Delivery feature to prevent the display of their telephone numbers. When ACR is activated, such calls will be routed to an announcement which tells the calling party that the called party will not accept calls from callers who have chosen to prevent the display of their telephone numbers. The calling party will be instructed to hang up and place the call again, without activating the Cancel Calling Number Delivery feature.

GTE Product Name	BSE or CNS
Anonymous Call Rejection	CNS

FEATURE OPERATION:

To activate or deactivate anonymous call rejection, the ESP's client dials a preassigned activation code in the form of *XX.

- 1. Dialing an activation code. A dial tone is provided, and then the ESP's client inputs the activation code in the form *XX (or 11XX on a rotary dial telephone). A recording or confirmation tone will notify the ESP's client that Anonymous Call Rejection is ON.
- 2. Dialing the deactivation code. A dial tone is provided, then the ESP's client inputs the Anonymous Call Rejection deactivation code in the form of *XX (or 11XX on a rotary dial telephone). A recording or confirmation tone will notify the ESP's client that Anonymous Call Rejection is OFF.

TECHNOLOGICAL AND FEATURE INTERACTION CONSIDERATIONS:

1. This feature is available in the following central office switches:

Switch Type	Earliest Generic Release		
DCO	17.2		
EWSD	9		
GTD-5	17.2.2		
DMS-10	406.1		
IAESS	1AE9		
5ESS	5E9.1		
DMS-100	BCS32		

Billed Number Screening

This capability provides Enhanced Service Providers (ESPs) with the ability to prevent third number calls from being billed to their switched access billing accounts (e.g., DID numbers). This capability is provided by the operating procedures of a LEC providing operator services capabilities.

When a call is made to a LEC operator services system, and the caller requests the charges be billed to a third number, the operator makes a call to the third number for verification that the charges will be accepted. If no answer is received when the third number is called for verification of billing acceptance, the bill to third request is rejected.

In some areas, when a call is made to a LEC operator services system, and the caller request the charges be billed to a third number, the operator queries the Line Information Database (LIDB) to determine the billed party's preference concerning bill to third number requests. If the information in the LIDB indicates to always reject bill to third party attempts, then the bill to third request is rejected.

GTE Product Name	BSE or CNS
Billed Number Screening	BSE or CNS

FEATURE OPERATION:

See description above.

TECHNOLOGICAL AND FEATURE INTERACTION CONSIDERATIONS:

1. This feature is available in the following central office switches:

Switch Type	Earliest Generic Release
DCO	14.1
EWSD	9
GTD-5	1.6.2.1
VIDAR	7.0.1.2
ITT-1210	7.2
DMS-10	208.1
IAESS	1AE9
5ESS	5E4
DMS-100	BCS30
#2EAX	1.2.9.1

This service, if offered as a BSE, is associated with the Circuit Switched Line basic serving arrangement.

Busy Number Redial

This capability provides the ESP's client with the ability to dial a redial activation code when a busy line is reached. The number is then retried automatically until both parties are available.

GTE Product Name	BSE or CNS
Busy Number Redial	CNS

FEATURE OPERATION:

See description above.

TECHNOLOGICAL AND FEATURE INTERACTION CONSIDERATIONS:

1. This feature is available in the following central office switches:

Switch Type	Earliest Generic Release
DCO	17.2
EWSD	9
GTD-5	1.6.2.1
DMS-10	404.4
IAESS	1AE9
5ESS	5E5
DMS-100	BCS30

2. Only busy calls within the central office are retried automatically.

Call Forwarding Busy No Answer - Fixed

This feature is a permanently activated service which automatically redirects calls place to an ESP client's telephone number to another telephone number subscribed to by the LEC's customer, if the caller encounters either a no-answer condition after a specified number of rings or a normal busy-line condition.

GTE Product Name	BSE or CNS
Call Forward Busy-Line/No Answer - Fixed	CNS

FEATURE OPERATION:

See description above.

TECHNOLOGICAL AND FEATURE INTERACTION CONSIDERATIONS:

1. This feature is available in the following central office switches:

Switch Type	Earliest Generic Release
DCO	15.1
EWSD	9
GTD-5	1.6.2.1
DMS-10	305.2
IAESS	IAE9
5ESS	5E5
DMS-100	BCS30
#2EAX	1.2.9.1

2. When call forwarding busy/no answer-fixed is active, the ESP's client's ability to originate calls will be unaffected.

Call Forwarding - Fixed (All Calls)

This capability provides the ESP's client with the ability to redirect all incoming calls to another location on a different premises. This service is permanently activated and the customer's preselected forward-to number is pre-programmed in the network via service order.

GTE Product Name	BSE or CNS
Call Forwarding - Fixed	CNS

FEATURE OPERATION:

See description above.

TECHNOLOGICAL AND FEATURE INTERACTION CONSIDERATIONS:

1. This feature is available in the following central office switches:

Switch Type	Earliest Generic Release
DCO	14.1
EWSD	9
GTD-5	1.6.2.1
VIDAR	7.0.1.2
ITT-1210	7.2
DMS-10	305.2
1AESS	1AE9
5ESS	5E5
DMS-100	BCS30
#2EAX	1.2.9.1

Call Restriction Service

This capability provides the ESP's client with the ability to restrict one plus (1+ and 10+XXX), International (011+), zero plus (0+) and/or zero minus (0-), and 900 prefix calling. Restricted calls are directed to a central office announcement.

GTE Product Name	BSE or CNS
Call Restriction Service	CNS

FEATURE OPERATION:

See description above.

TECHNOLOGICAL AND FEATURE INTERACTION CONSIDERATIONS:

1. This feature is available in the following central office switches:

Switch Type	Earliest Generic Release
DCO	15.1
EWSD	9
GTD-5	1.6.2.1
VIDAR	7.0.1.2
DMS-10	402.52
IAESS	IAE9
5ESS	5E4
DMS-100	BCS30
#2EAX	1.2.9.1

2. Toll Restriction will not be provided on party lines or CentraNet(R) lines.

Call Waiting

This capability provides a burst of tone to a busy station user to indicate to the ESP's client that another call is waiting. The busy station user may hang up and answer the second call or can place the original call on hold and answer the second call.

GTE Product Name	BSE or CNS
Call Waiting	CNS

FEATURE OPERATION:

An incoming call to a busy line with CW receives audible ringing. The line with call waiting receives a CW tone that is repeated once about 10 seconds after the initial burst of tone.

The line with CW may respond to the CW tone in one of three ways. The called party may disconnect from the existing call. The telephone will then be rung and, if answered, the called party will be connected to the waiting call. The second alternative allows the line with Call Waiting to flash the switch-hook (.75 to 1.5 seconds) and, thereby, place the original call on hold and connect to the incoming call. The party with CW may alternate between calls by flashing the switch-hook. The third alternative is not to respond to the CW tone.

TECHNOLOGICAL AND FEATURE INTERACTION CONSIDERATIONS:

1. This feature is available in the following central office switches:

Switch Type	Earliest Generic Release
DCO	14.1
EWSD	9
GTD-5	1.6.2.1
VIDAR	7.0.1.2
ITT-1210	7.2
DMS-10	210.4
1AESS	1AE8
5ESS	5E2
DMS-100	BCS17
#2EAX	1.2.9.1

2. If a line has Call Forwarding Busy Line (CFBL) and CW, the CW service normally takes precedence.

- Given that a line has both CFBL and CW and is in the talk state, the first call attempting to terminate is treated as a CW call. Subsequent termination attempts are call forwarded.
- 4. On a line with both a make-busy key and CW, make-busy key takes precedence when the key is activated.

5. References:

- o LSSGR (FR-NWT-000064), FSD 01-02-1201 Call Waiting, Issue 1, October 1989. Revision 1, June 1991, TR-TSY-000571.
- o Business Group Call Waiting FSD 01-02-1205, Issue 1, October 1989, TR-TSY-000573.
- o TR-TSY-000219 CLASS sm Feature: Distinctive Ringing/Call Waiting, LSSGR FSD 01-01-1110, Issue 2, November 1988, Revision 1, May 1992.

Customer Controllable Ringing

This capability provides the ESP's client with the ability to adjust the number of ring cycles that are used prior to forwarding a call in a "No Answer" situation.

GTE Product Name	BSE or CNS
Customer Controllable Ringing	CNS

TECHNOLOGICAL AND FEATURE INTERACTION CONSIDERATIONS:

1. This feature is available in the following central office switches:

Switch Type	Earliest Generic Release
DCO	17
EWSD	9
GTD-5	1.6.2.3
DMS-10	404.3
1AESS	1AE9
5ESS	5E4

2. To select the number of rings desired (1-9), the customer will dial a special access code and then input a digit that corresponds to the number of ring cycles desired before the forwarding takes place.

GTE Dial DataLink(R) Service

This capability provides the ESP's client with an enhancement to their local facilities to provide higher quality transmission standards than normally provided for voice transmission. It is designed for customer requesting a better grade of service for data transmission.

GTE Product Name	BSE or CNS
GTE Dial DataLink(R)	CNS

TECHNOLOGICAL AND FEATURE INTERACTION CONSIDERATIONS:

- 1. The quality of the line is guaranteed only between the customer point of demarcation and the serving central office switch. No guarantee is made for a transmission level over the entire circuit.
- 2. GTE Dial DataLink(R) Service in not offered in conjunction with the following:
 - Foreign Central Office Service
 - Foreign Exchange Service
 - CentraNet(R) Service
 - Call Waiting
 - Off-Premise Extensions
 - PBX Trunks or stations
 - Residence or Business service provided by analog station carrier (e.g., 82A & 84A)
 - Smart Ring(sm)

GTE Dial DataLink(R) and CentraNet(R) are registered trademarks of GTE Telephone Operations

Smart Ring(sm) is a service mark of GTE Telephone Operations

Last Number Redial

This capability provides the ESP's client to dial an activation code and automatically place a call to the last called number. Each time the ESP's client dials, using the activation code, the most recent number is stored.

GTE Product Name	BSE or CNS
Last Number Redial	CNS

FEATURE OPERATION:

See description above.

TECHNOLOGICAL AND FEATURE INTERACTION CONSIDERATIONS:

1. This feature is available in the following central office switches:

Switch Type	Earliest Generic Release
DCO	17.2
EWSD	9
GTD-5	1.6.2.1
DMS-10	404.2
IAESS	1AE9
5ESS	5E5
DMS-100	BCS30

2. When last number redial is active, the ESP's client's ability to receive calls will be unaffected.

MegaConnect(sm) Service

This capability provides the Enhanced Service Provider (ESP) with a high speed data service that offers broadband switching over a wide geographic area. MegaConnect(sm) can be provided with either a lineside or trunkside interface

GTE Product Name	BSE or CNS
MegaConnect(sm) Service	BSE

TECHNOLOGICAL AND FEATURE INTERACTION CONSIDERATIONS:

- 1. Customer premises are connected to the MegaConnect(sm) port via DS1 or DS3 Special Access Lines.
- 2. One MegaConnect(sm) address is assigned to each DS1 or DS3 service accessing the MegaConnectsm network.
- 3. A maximum of sixteen addresses can be assigned to each DS1 or DS3.
- 4. The MegaConnect(sm) Network will only transmit information between authorized users within a customer-defined closed user group. A closed user group is a set of source and destination addresses allowed to exchange data traffic in the MegaConnect(sm) network.

5. References:

- o TR-TSV-000772, Issue 1, May 1991
- o TR-TSV-000773, Issue 1, January 1993
- o TR-TSV-001060, Issue 2, March 1993
- o TR-TSV-001062, Issue 1, March 1993
- o TR-TSV-001064, Issue 1, December 1992

MegaConnect(sm) is a service mark of GTE Telephone Operations

Message Waiting Indication - Ability To Receive Audible Ring Burst

This capability provides the ESP's client with the ability to receive ringing at a special cadence to signal the customer that a message is waiting. This reminder will be repeated at a specific interval programmed by the Telephone Company.

GTE Product Name	BSE or CNS
MWI - Ability to Receive Audible Ring Burst	CNS

TECHNOLOGICAL AND FEATURE INTERACTION CONSIDERATIONS:

1. This feature is available in the following central office switches:

Switch Type	Earliest Generic Release
GTD-5	1.7.1.1

2. The Audible Ring Burst feature is in addition to the stutter dial tone that normally represents a message waiting.

Multiplexing Arrangements

Multiplexing is a technique that uses a single transmission facility to provide several transmission channels, such as by sharing the time slots of the channel (time-division multiplexing) or superimposing many frequencies at the same time (frequency-division multiplexing) in order that many signal sources and links may communicate during a given time period. This capability may include multiplexing such as:

- DS0 To Subrates This capability provides for the time division multiplexing of multiple digital data signals operating at the subrate speeds of 2.4 Kbps, 4.8 Kbps, or 9.6 Kbps with a 64 Kbps DS) digital signal.
- Multiplexing DS I/Analog or DSO This capability provides for the pulse code modulation and/or time division multiplexing of multiple analog voice and/or multiple 64 Kbps DSO digital signals into a 1.544 Mbps data stream for the purposes of reducing the number of transmission links required between two points.
- Multiplexing DS1 To DS0 This capability provides for the time division multiplexing of up to twenty-four 64 Kbps DS0 digital signals into a 1.544 Mbps DS1 digital signal.
- Multiplexing DS1 To Voice Grade This capability provides for the pulse code modulation and time division multiplexing of up to twenty-four 4 kHz voice grade channels into a 1.544 Mbps DS1 digital signal.
- Multiplexing DS3/DS1 This capability provides for the time division multiplexing of up to twenty-eight 1.544 Mbps DS1 digital signals into a 44.736 Mbps DS3 digital signal.

GTE Product Name	BSE or CNS
Multiplexing Arrangements	BSE

References:

- o TR-TSY-000009 Asynchronous Digital Multiplexes Requirements and Objectives, Issue 1, May 1986.
- o TR-TSY-000010 Synchronous DS3 Add-Drop Multiplex (ADM 3/X) Requirements and Objectives, Issue 1, February 1988.

This service, if offered as a BSE, is associated with the Dedicated Voice Grade and the Dedicated High Capacity basic serving arrangements.

Remote Call Forwarding

This capability utilizes a Directory Number (DN) to automatically forward all incoming calls to another DN. The forwarded to number can be in the same central office switch or in another central office switch.

The remote call forwarding directory number is not directly associated with an access connection arrangement, but rather is a software translation programmed within the central office switch. All calls dialed to that directory number will forward to another number automatically. The subscriber to this capability does not have a station set for termination of calls make to their remote call forwarding number.

GTE Product Name	BSE or CNS
Remote Call Forwarding	BSE or CNS

FEATURE OPERATION:

See description above.

TECHNOLOGICAL AND FEATURE INTERACTION CONSIDERATIONS:

1. This feature is available in the following central office switches:

Switch Type	Earliest Generic Release
DCO	15.1
EWSD	9
GTD-5	1.6.2.1
DMS-10	404.2
IAESS	IAE9
5ESS	5E5
DMS-100	BCS30
#2EAX	, 1.2.9.1

2. Reference:

o LSSGR (FR-NWT-000064), FSD 01-02-1402, Remote Call Forwarding, TR-TSY-000581, Issue 1, October 1989.